

***Interactive comment on “Assessing the extreme risk of coastal inundation due to climate change: A case study of Rongcheng, China” by Aiqing Feng et al.***

**Anonymous Referee #1**

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The paper only looks into change into the effects of extreme flood levels, and has a very simplistic approach to calculate the damages. It does not have sufficient content to be published. My advice is to focus the paper on either:

1. the technical part of extrapolating 1/1000 flood levels out of a short series of water levels, and how SLR will affect these return periods (also, how exactly increase the storm surges by physical processes, water levels close to shore are higher, so wave upset is also higher, so no linear relation between SLR and flood levels). E.g. <http://dx.doi.org/10.1016/j.coastaleng.2012.02.009>, <http://dx.doi.org/10.1016/j.coastaleng.2014.01.001>
2. the socio-economic assessment and also evaluate adaptive measures. For this

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water levels that occur more often than 1/50 years are also needed, land use change, and depreciation rates. E.g. doi:10.5194/nhess-14-1441-2014 , doi:10.1007/s10113-013-0420-z

Several additional remarks and suggestions are included in the pdf. Also English should be checked, too many mistakes in the text, sometimes blurring the exact point that is made

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2017-31/nhess-2017-31-RC1-supplement.pdf>

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2017-31, 2017.